

**Abstract**

A catalyst system and a process for the bulk addition  
polymerization or of polycyclic olefins, such as norbornene,  
5 methylnorbornene, ethylnorbornene, butylnorbornene or hexylnorbornene,  
1,2,3,4,4a,5,8,8a-octahydro-1,4:5,8-dimethanonaphthalene,  
5,5'-(1,2-ethanediyl)bisbicyclo[2.2.1]hept-2-ene, and  
1,4,4a,4b,5,8,8a,8b-octahydro-1,4:5,8-dimethanobiphenylene are  
disclosed. The catalyst includes an organonickel or organopalladium  
10 transition metal procatalyst and an activator compound. Polymerization  
can be carried out in a reaction injection molding process to yield  
thermoplastic and thermoset molded polymeric articles possessing high  
glass transition temperatures.

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